

MONTANA NATURAL HERITAGE PROGRAM



TED SCHWINDEN, GOVERNOR

MONTANA STATE LIBRARY BUILDING

STATE OF MONTANA

1515 EAST 6TH AVENUE

HELENA, MONTANA 59620
(406) 444-3009

7 JANUARY 1988

PLANT SPECIES OF SPECIAL CONCERN

The Montana Natural Heritage Program (MTNHP) is inventorying the elements of natural diversity of Montana. The inventory includes plant species, animal species, and plant associations which are rare, endemic, disjunct, threatened, or endangered throughout their range or in Montana, vulnerable to extirpation from Montana, or in need of further research.

The attached list of 351 plant taxa of special concern in Montana represents the list which, with periodic revision, is directing data acquisition by the MTNHP. It has been developed from information supplied by the Montana Rare Plant Project (University of Montana, Missoula, MT), as well as from the scientific literature, herbarium specimens, and field research. This list is dynamic, and is being revised as new data become available to the MTNHP.

Written comments and suggestions are continually needed on this list, particularly regarding additions or deletions, specific locational information, and general comments for the improvement of the list. The data system (map, manual, and computer files) has been set up, and initial data for many taxa have been entered; the MTNHP will eventually be able to supply location information and status data for most of these taxa.

Plant taxa are ranked by a standardized procedure used in all state heritage programs. They are ranked on the basis of their range-wide or global rarity, and on their rarity within the specific state, using these ranking categories:

GLOBAL

RANK Definition

G1 Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction. (Critically endangered throughout range).

G2 Imperiled globally because of rarity (6 to 20 occurrences) or because of other factors demonstrably making it very vulnerable to extinction throughout its range. (Endangered throughout range).

G3	Either very rare and local throughout its range or found locally (even abundant at some of its locations) in a restricted range, or because of other factors making it vulnerable to extinction throughout its range; in the range of 21 to 100 occurrences. (Threatened throughout range).
G4	Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
G5	Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
GU	Possibly in peril range-wide, but status uncertain; more information needed.
GH	Historically known; may be rediscovered.
GX	Believed to be extinct throughout range; historical records only, continue search.
HYB	Subfertile or sterile hybrid.
<u>STATE RANK</u>	<u>Definition</u>
S1	Critically imperiled in Montana because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extirpation from the state. (Critically endangered in state).
S2	Imperiled in Montana because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extirpation from the state. (Endangered in state).
S3	Rare in Montana (on the order of 20+ occurrences). (Threatened in state).
S4	Apparently secure in Montana.
S5	Demonstrably secure in Montana.
SU	Possibly in peril in Montana, but status uncertain; more information needed.
SH	Historically known in Montana; may be rediscovered.
SX	Apparently extirpated from Montana.
HYB	Subfertile or sterile hybrid.

Other codes:

Q Taxonomic questions or problems involved; more information needed.

T Rank for a subspecific taxon (subspecies or variety); appended to the global rank for the full species.

It should be emphasized that many of the global and state ranks are constantly being revised or completed; these updated rankings will appear on revised lists as they become available.

The symbols utilized in the Federal Status column denote the categories defined in the U.S. Fish and Wildlife Service Notices of Review (1980, 1983, 1985).

E Endangered (none in Montana).

T Threatened (none in Montana).

P Proposed E or T (none in Montana).

C1 Notice of Review, Category 1 (substantial biological information on file to support the appropriateness of proposing to list as endangered or threatened).

C2 Notice of Review, Category 2 (current information indicates that proposing to list as endangered or threatened is possibly appropriate, but substantial biological information is not on file to support an immediate ruling).

C2* Category 2, and the taxon is possibly extinct.

3A Taxa for which the USFWS has persuasive evidence of extinction.

3B Names that, on the basis of current taxonomic understanding, do not represent taxa meeting the Endangered Species Act's definition of "species."

3C Taxa that have proven to be more abundant or wide spread than was previously believed, and/or those that are not subject to any identifiable threat.

Selected references:

Dorn, R.D. 1984. Vascular plants of Montana. Mountain West Publishing, Cheyenne, WY. 276 pp.

Federal Register, 1980. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species. 45(242): 82480-82569. 15 December 1980.

Federal Register, 1983. Endangered and threatened wildlife and plants: Supplement to review of plant taxa for listing; proposed rule. 48(229): 53640-53670. 28 November 1983.

Federal Register, 1985. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species; Notice of review. 50(188): 39525-39584. 27 September 1985.

Kartesz, J.T. 1985. Vascular plant checklist (draft revised). In preparation.

Lesica, P., G. Moore, K.M. Peterson, and J.H. Rumely (Montana Rare Plant Project). 1984. Vascular plants of limited distribution in Montana. Vol. 43, Monograph No. 2, Montana Academy of Sciences, Supplement to the Proceedings. 61 pp.

Compiled by J. Stephen Shelly
Revised 07JAN88

Montana Natural Heritage Program
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
ADONIS MOSCHATELLINA	PDAD001010	ADOXACEAE	65	S1	
AGASTACHE CUSICKII	PDLAM03030	LAMIACEAE	6364	S1	C2
AGoseris sp nov	PDAST09X10	ASTERACEAE	62	S1	
AGrostis borealis	PMPOA04190	POACEAE	65	S1	
ALLIUM ACUMINATUM	PMLIL02020	LILIACEAE	65	S1	
ALLIUM DOUGLASII VAR COLUMBIANUM	PMLIL02071	LILIACEAE	6465T3	S1	
ALLIUM FIBRILLUM	PMLIL020X0	LILIACEAE	6?	S1	
ALLIUM PARVUM	PMLIL021P0	LILIACEAE	65	S1	
ALLIUM SIMILLIMUM	PMLIL02270	LILIACEAE	6?	S1S2	
ALLOTROPA VIRGATA	PDERI01010	ERICACEAE	64	S1	
AMARANTHUS CALIFORNICUS	PDAMA040A0	AMARANTHACEAE	6?	S1	
AMMANNIA COCCINEA	PDLYT01020	LYTHRACEAE	65	S1	
AMORPHIA CANESCENS	PDFAB08020	FABACEAE	65	S1SX	
ANTENNARIA PLANTAGINIFOLIA	PDAST0H0J0	ASTERACEAE	65	SU	
ANTENNARIA PULCHERRIMA	PDAST0H0L0	ASTERACEAE	6364	S1	
AQUILEGIA BREVISTYLA	PDRAN05020	RANUNCULACEAE	65	S1	
AQUILEGIA FORMOSA	PDRAN050B0	RANUNCULACEAE	6465	S1	
ARABIS FECUNDA	PDBRA06290	BRASSICACEAE	61	S1	C2
ARABIS LIGNIFERA	PDBRA06120	BRASSICACEAE	65	S1	
ARCTOSTAPHYLOS PATULA	PDERI04130	ERICACEAE	64	S1	
ARENARIA KINGII	PDCAR040D0	CARYOPHYLLACEAE	64	S1	
ARTEMISIA NORVEGICA VAR SAXATILIS	PDAST0S071	ASTERACEAE	6?	S1	
ARTEMISIA PEDATIFIDA	PDAST0S1A0	ASTERACEAE	6364	S2	
ASCLEPIAS STENOPHYLLA	PDASC021U0	ASCLEPIADACEAE	6465	S1	
ASPLENIUM TRICHOMANES	PPASP021K0	ASPLENIACEAE	65	S1	
ASTER FRONDOSUS	PDAST0T160	ASTERACEAE	64	S1	
ASTER PTARMICOIDES	PDAST8P1F0	ASTERACEAE	65	S1	
ASTRAGALUS ARETIODIDES	PDFAB0F0R0	FABACEAE	64	S2	
ASTRAGALUS ARGOPHYLLUS VAR ARGOPHYLLUS	PDFAB0F0S1	FABACEAE	65T?	S1	
ASTRAGALUS BARRII	PDFAB0F150	FABACEAE	6263	S2	C2
ASTRAGALUS CERAMICUS VAR APUS	PDFAB0F1V1	FABACEAE	64T3	S1	C2
ASTRAGALUS CHAMAELEUCE	PDFAB0F1X0	FABACEAE	65	S1	
ASTRAGALUS CONVALLARIUS	PDFAB0F2D0	FABACEAE	65	S1	
ASTRAGALUS GEYERI	PDFAB0F3H0	FABACEAE	65	S1	
ASTRAGALUS GRAYI	PDFAB0F3V0	FABACEAE	6?	S1	
ASTRAGALUS HYALINUS	PDFAB0F460	FABACEAE	63	S2	
ASTRAGALUS LENTIGINOSUS VAR SALINUS	PDFAB0F4QR	FABACEAE	65T?	S1	
ASTRAGALUS LEPTALEUS	PDFAB0F4R0	FABACEAE	64	SUS1	
ASTRAGALUS MOLYBDENUS	PDFAB0F5M0	FABACEAE	6?	S1	
ASTRAGALUS OREGANUS	PDFAB0F6D0	FABACEAE	6?	S1	
ASTRAGALUS PLATYTROPIS	PDFAB0F6X0	FABACEAE	6364	S1	
ASTRAGALUS RACEMOSUS VAR LONGISETUS	PDFAB0F7C1	FABACEAE	6?	SU	
ASTRAGALUS SCAPHOIDES	PDFAB0F7V0	FABACEAE	63	S1	C2
ASTRAGALUS TERMINALIS	PDFAB0F8U0	FABACEAE	6364	S2	
ATHYSANUS PUSILLUS	PDBRA08010	BRASSICACEAE	64	S1	
BACOPA ROTUNDIFOLIA	PDSCR060B0	SCROPHULARIACEAE	65	S1	
BALSAMORHIZA MACROPHYLLA	PDAST11070	ASTERACEAE	6365	S1	
BIDENS TRIPARTITA	PDAST181L0	ASTERACEAE	6?NE	SU	
BIDENS VULGATA VAR SCHIZANTHA	PDAST181N1	ASTERACEAE	65T?	S1	
BOTRYCHIUM CRENULATUM	PPOPH010L0	OPHIOGLOSSACEAE	61630	S1	C2

Montana Natural Heritage Program
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
BOTRYCHIUM HESPERIUM	PPOPH01000	OPHIOGLOSSACEAE	G3?	SU	
BOTRYCHIUM MINGANENSE	PPOPH010R0	OPHIOGLOSSACEAE	G4	S1	
BOTRYCHIUM MONTANUM	PPOPH010K0	OPHIOGLOSSACEAE	G2G3	S2	
BOTRYCHIUM PARADOXUM	PPOPH010J0	OPHIOGLOSSACEAE	G1	S1	C2
BRASENIA SCHREBERI	PDNYM01010	NYMPHAEACEAE	G5	S1	
BULBOSTYLIS CAPILLARIS	PMCYP02020	CYPERACEAE	G5	S1	
CALAMAGROSTIS TWEEDYI	PMPOA17150	POACEAE	G3G4	S1	C2
CAMISSONIA ANDINA	PDONA03010	ONAGRACEAE	G4	S1	
CAMISSONIA MINOR	PDONA03110	ONAGRACEAE	G?	S1	
CAMISSONIA SCAPOIDEA	PDONA031G0	ONAGRACEAE	G4	SU	
CAMISSONIA TANACETIFOLIA	PDONA031H0	ONAGRACEAE	G5	S1	
CARDAMINE RUPICOLA	PDBRA0K130	BRASSICACEAE	G2G3	S2G3	SC
CAREX AMPLIFOLIA	PMCYP030N0	CYPERACEAE	G3G4	S1	
CAREX CHORDORRHIZA	PMCYP032U0	CYPERACEAE	G5	S1	
CAREX COMOSA	PMCYP032Y0	CYPERACEAE	G5	S1	
CAREX CRAWEI	PMCYP03360	CYPERACEAE	G5	S1	
CAREX EURYCARPA	PMCYP034E0	CYPERACEAE	G?	S1?	
CAREX GRAVIDA	PMCYP035G0	CYPERACEAE	G5	S1S2	
CAREX IDAHOA	PMCYP036E0	CYPERACEAE	G3G	S1	C2
CAREX LENTICULARIS VAR DOLIA	PMCYP037A3	CYPERACEAE	G5T2	S1	C2
CAREX LIVIDA	PMCYP037L0	CYPERACEAE	G5	S1	
CAREX MARITIMA	PMCYP03860	CYPERACEAE	G4	S1	
CAREX MICROGLOCHIN	PMCYP038K0	CYPERACEAE	G5?	SU	
CAREX MULTICOSTATA	PMCYP038Y0	CYPERACEAE	G?	S1	
CAREX OCCIDENTALIS	PMCYP039H0	CYPERACEAE	G?	SU	
CAREX PAUPERCULA	PMCYP03A70	CYPERACEAE	G5	S1	
CAREX PETRICOSA	PMCYP03AF0	CYPERACEAE	G4	S1	
CAREX SCOPARIA	PMCYP03C90	CYPERACEAE	G5	S1	
CAREX STENOPTILA	PMCYP03CX0	CYPERACEAE	G?	SU	
CAREX SYCHNOCEPHALA	PMCYP03DE0	CYPERACEAE	G4	S1	
CAREX TENUIFLORA	PMCYP03DL0	CYPERACEAE	G5	S1	
CAREX TINCTA	PMCYP03DQ0	CYPERACEAE	G4G5	S1	
CAREX TORREYI	PMCYP03DT0	CYPERACEAE	G4	S1	
CASTILLEJA COVILLEANA	PDSCR0D0K0	SCROPHULARIACEAE	G?	S1	
CASTILLEJA EXILIS	PDSCR0D0H0	SCROPHULARIACEAE	G5	SU	
CASTILLEJA GRACILLIMA	PDSCR0D150	SCROPHULARIACEAE	G?	SU	
CASTILLEJA LONGISPICA	PDSCR0D1W0	SCROPHULARIACEAE	G?	SU	
CASTILLEJA OCCIDENTALIS	PDSCR0D290	SCROPHULARIACEAE	G?	S2	
CASTILLEJA RUSTICA	PDSCR0D2V0	SCROPHULARIACEAE	G?	SU	
CEANOHTHUS HERBACEUS	PDRHA040K0	RHAMNACEAE	G5	S1SH	
CELASTRUS SCANDENS	PDCEL03020	CELASTRACEAE	G5	S1	
CENTAURIUM EXALTATUM	PDGEN02060	GENTIANACEAE	G5	S1SX	
CENTUNCULUS MINIMUS	PDPR101020	PRIMULACEAE	G5	S1SH	
CERCOCARPUS MONTANUS VAR GLABER	PDRDS08023	ROSACEAE	G5TU	S1	
CHRYSOSPLENIUM TETRANDRUM	PDSAX07050	SAXIFRAGACEAE	G?	S1	
CHRYSOTHAMNUS LINIFOLIUS	PDAST2C050	ASTERACEAE	G?	S1SH	
CIRSIUM BREVISTYLOM	PDAST2E080	ASTERACEAE	G4	S1	
CIRSIUM LONGISTYLOM	PDAST2E1P0	ASTERACEAE	G2D	S2	
CIRSIUM SUBNIVEUM	PDAST2E2S0	ASTERACEAE	G3G4	S1	
CLARKIA RHOMBOIDEA	PDONA050X0	ONAGRACEAE	G4	S1	

Montana Natural Heritage Program
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
CLAYTONIA LANCEOLATA VAR FLAVA	PDPOR03092	PORTRULACACEAE	G5T1	S1	C2
CLEOME LUTEA	PDCPP03070	CAPPARACEAE	G?	S1	
CONIOSELINUM SCOPULORUM	PDAPI0P040	APIACEAE	G?	S1	
CORDYLANTHUS CAPITATUS	PDSCR0J030	SCROPHULARIACEAE	G?	S1	
CORYDALIS SEMPERVIRENS	PDPAP070B0	PAPAVERACEAE	G4G5	S1S2	
CRYPTANTHA FENDLERI	PDBOR0A0X0	BORAGINACEAE	G4	S1	
CRYPTANTHA FLAVOCULATA	PDBOR0A100	BORAGINACEAE	G5	S1	
CRYPTANTHA HUMILIS	PDBOR0A1A0	BORAGINACEAE	G4?	S1?	
CYPERUS ACUMINATUS	PMCYP06010	CYPERACEAE	G5	S1	
CYPERUS ERYTHRORHIZOS	PMCYP06020	CYPERACEAE	G5	SU	
CYPERUS RIVULARIS	PMCYP06320	CYPERACEAE	G5	S1	
CYPERUS SCHWEINITZII	PMCYP06360	CYPERACEAE	G5	S1	
CYPRIPELIDUM CALCEOLUS VAR PARVIFLORUM	PMORC00090	ORCHIDACEAE	G4T3	S2	
CYPRIPELIDUM FASCICULATUM	PMORC00060	ORCHIDACEAE	G4	S1	3C
CYPRIPELIDUM PASSERINUM	PMORC000A0	ORCHIDACEAE	G4G5	S1	
CYSTOPTERIS MONTANA	PPASP00050	ASPLENIACEAE	G5	S1SU	
DALEA VILLOSA	PDFAB1A1Q0	FABACEAE	G?	S1	
DELPHINIUM ANDERSONII	PDRAN0B030	RANUNCULACEAE	G5	SU	
DELPHINIUM BURKEI	PDRAN0B090	RANUNCULACEAE	G4	S1	
DELPHINIUM GEYERI	PDRAN0B0L0	RANUNCULACEAE	G?	SU	
DICHANTHELIUM OLIGOSANTHES	PMPOA24000	POACEAE	G5	S1SH	
DRABA APICULATA	PDBRA11050	BRASSICACEAE	G4G5	S1	
DRABA DAVIESIAE	PDBRA112U0	BRASSICACEAE	G2	S2	3C
DRABA FLADNIZENSIS	PDBRA110Z0	BRASSICACEAE	G?	S1	
DRABA MACOUNII	PDBRA111H0	BRASSICACEAE	G3G4	S1	
DRABA PORSILDII	PDBRA11200	BRASSICACEAE	G?	S1	
DRABA VENTOSA	PDBRA112M0	BRASSICACEAE	G5	S1	
DROSERA LINEARIS	PDDRO02060	DROSERACEAE	G4	S1	
DRYAS INTEGRIFOLIA	PDROS0L020	ROSACEAE	G5	S1	
DRYOPTERIS CRISTATA	PPASP0C080	ASPLENIACEAE	G5	S1	
ELATINE CALIFORNICA	PDELT02040	ELATINACEAE	G?	S1	
ELODEA LONGIVAGINATA	PMHYD03060	HYDROCHARITACEAE	G?	S1	
ELYMUS FLAVESCENS	PMPOA2H070	POACEAE	G4	S1	
ELYMUS INNOVATUS	PMPOA2H0A0	POACEAE	G4	S1	
EPIPACTIS GIGANTEA	PMORC11010	ORCHIDACEAE	G4	S1	
ERIGERON ALLOCOTUS	PDAST3M050	ASTERACEAE	G3	S2	3C
ERIGERON ASPERUGINEUS	PDAST3M0D0	ASTERACEAE	G4	S1	
ERIGERON BELLIDIASTRUM	PDAST3M0J0	ASTERACEAE	G?	SU	
ERIGERON EATONII SSP EATONII	PDAST3M171	ASTERACEAE	G4T4	S1?	
ERIGERON EVERMANNII	PDAST3M1B0	ASTERACEAE	G4G5	S2	
ERIGERON FLABELLIFOLIUS	PDAST3M1E0	ASTERACEAE	G3G4	S2	
ERIGERON FLAGELLARIS	PDAST3M1F0	ASTERACEAE	G4	S1	
ERIGERON FORMOSISSIMUS VAR VISCIDUS	PDAST3M1K2	ASTERACEAE	G4T?	S1	
ERIGERON LACKSCHEWITZII	PDAST3M4F0	ASTERACEAE	G1Q	S1	
ERIGERON LANATUS	PDAST3M250	ASTERACEAE	G4	S2	
ERIGERON LINEARIS	PDAST3M2B0	ASTERACEAE	G5	S1	
ERIOPONUM LAGOPUS	PDPGN0B3E0	POLYGONACEAE	G1Q	S1	C2
ERIOPONUM PYROLIFOLIUM VAR CORYPHAEUM	PDPGN0B4Z1	POLYGONACEAE	G?	S2	
ERIOPONUM UMBELLATUM VAR STELLATUM	PDPGN0B62K	POLYGONACEAE	G5TU	SU	
ERIOPHORUM VIRIDICARINATUM	PMCYP0A0E0	CYPERACEAE	G5	S1	

Montana Natural Heritage Program
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
EUPATORIUM MACULATUM	PDAST3P140	ASTERACEAE	65	S1	
EUPATORIUM OCCIDENTALE	PDAST3P180	ASTERACEAE	64	S1	
EUPHRASIA ARCTICA	PDSCR9P030	SCROPHULARIACEAE	65	S1	
FESTUCA VIVIPARA	PMPOA2V1D0	POACEAE	63G4	S1	
GENTIANA AQUATICA	PDGEN06050	GENTIANACEAE	64	S1	
GENTIANA GLAUCA	PDGEN060E0	GENTIANACEAE	6?	S1	
GENTIANELLA TENELLA	PDGEN07070	GENTIANACEAE	64	S2	
GENTIANOPSIS MACOUNII	PDGEN08050	GENTIANACEAE	65	S1	
GENTIANOPSIS SIMPLEX	PDGEN080A0	GENTIANACEAE	63G4	S1	
GEOCAULON LIVIDUM	PDSAN04010	SANTALACEAE	64	S1	
GEUM ROSSI VAR ROSSII	PDROS0S0E2	ROSACEAE	65T?	SU	
GILIA LEPTOMERIA VAR LEPTOMERIA	PDPLM040X1	POLEMONIACEAE	65T?	S2?	
GILIA TWEEDYI	PDPLM041U0	POLEMONIACEAE	64G5Q	S1	
GOODYERA REPENS	PMORC17030	ORCHIDACEAE	65	S1	
GRAYIA SPINOSA	PDCHC0C020	CHENOPODIACEAE	65	SU	
GRINDELIA HOWELLII	PDAST470E0	ASTERACEAE	63	S3	C2
HALENA DEFLEXA	PDGEN09010	GENTIANACEAE	65	S1	
HAPLOAPPUS MACRONEMA	PDAST4F0U0	ASTERACEAE	63G5	S1	
HAPLOAPPUS MULTICAULIS	PDAST4F0W0	ASTERACEAE	64	S1	
HAPLOAPPUS NANUS	PDAST3L0B0	ASTERACEAE	6?	S1	
HAPLOAPPUS PYGMAEUS	PDAST4F100	ASTERACEAE	64	S1	
HELENIUM HOOPESII	PDAST	ASTERACEAE	6U	S1	
HEMICARPHA DRUMMONDII	PMCYP0E010	CYPERACEAE	6?	SU	
HETERANTHERA DUBIA	PMPPN06010	PONTEDERIACEAE	65	S1	
HETEROCODON RARIFLORUM	PDCAM0B010	CAMpanulaceae	6?	S1	
HOWELLIA AQUATILIS	PDCAM0A010	CAMpanulaceae	62	S1	C2
HUTCHINSIA PROCUMBENS	PDBRA1E010	BRASSICACEAE	65	S1	
HYMENOPAPPUS FILIFOLIUS VAR IDAHOENSIS	PDAST51034	ASTERACEAE	6?T2T4	SU	3C
HYMENOPAPPUS FILIFOLIUS VAR LUTEUS	PDAST51036	ASTERACEAE	6?	SU	
HYMENOXYS TORREYANA	PDAST530M0	ASTERACEAE	6?	S1	
IDAHOA SCAPIGERA	PDBRA1G010	BRASSICACEAE	65	S1	
IPOMOPSIS CONGESTA SSP CREBRIFOLIA	PDPLM06032	POLEMONIACEAE	65T5	S1	
IPOMOPSIS PUMILA	PDPLM060E0	POLEMONIACEAE	6?	S1	
JUNCUS ACUMINATUS	PMJUN01030	JUNCACEAE	65	S1	
JUNCUS ALBESCENS	PMJUN01060	JUNCACEAE	6?	S1	
JUNCUS CASTANEUS	PMJUN010P0	JUNCACEAE	6?	S2	
JUNCUS COVILLEI	PMJUN010V0	JUNCACEAE	64G5	S1	
JUNCUS HALLII	PMJUN011E0	JUNCACEAE	64G5	S1	
JUNCUS TRIGLUMIS	PMJUN012Z0	JUNCACEAE	65	S2	
KELLOGGIA GALIOIDES	PDRUB12010	RUBIACEAE	65	S1	
KOBRESIA SIBIRICA	PMCYP0F020	CYPERACEAE	65	S1	
KOBRESIA SIMPLICIUSCULA	PMCYP0F030	CYPERACEAE	65	S1	
KOCHIA AMERICANA	PDCHC0E010	CHENOPODIACEAE	6?	S1	
KOENIGIA ISLANDICA	PDPGN0D010	POLYGONACEAE	64	S2	
LATHYRUS BIJUGATUS	PDFAB25040	FABACEAE	6?	S1	
LEPIDIUM MONTANUM	PDBRA1M0L0	BRASSICACEAE	64	S1	
LEPTODACTYLON CAESPITOSUM	PDPLM08010	POLEMONIACEAE	63G4	S1	
LESQUERELLA CARINATA	PDBRA1N0B0	BRASSICACEAE	63	S1	3C
LESQUERELLA HUMILIS	PDBRA1N1Y0	BRASSICACEAE	61	S1	
LESQUERELLA KLAUSII	PDBRA1N1Z0	BRASSICACEAE	62	S2	

Montana Natural Heritage Program
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
LEWISIA COLUMBIANA VAR WALLOWENSIS	PDPDR04033	PORTULACACEAE	G4T4	S1	SC
LIGUSTICUM FILICINUM	PDAPI18060	APIACEAE	G?	S1	
LIGUSTICUM PORTERI	PDAPI18080	APIACEAE	G465	S1	
LILAEA SCILLOIDES	PMSCH01010	SCHEUCHZERIACEAE	G?	S1	
LILIUM COLUMBIANUM	PMLIL1A050	LILIACEAE	G465	S1	
LINANTHUS NUTTALLII	PDLML090V0	POLEMONIACEAE	G?	S2	
LINARIA CANADENSIS VAR TEXANA	PDSCL110D	SCROPHULARIACEAE	G4T4	S1	
LOBELIA SPICATA	PDCAM0E190	CAMPANULACEAE	G5	S1	
LOMATIUM BICOLOR VAR BICOLOR	PDAPI1B021	APIACEAE	G?	S2	
LOMATIUM GEYERI	PDAPI1B0N0	APIACEAE	G364	S1	
LYCOPODIUM ALPINUM	PPLYC01020	LYCOPODIACEAE	G?	S1S2	
LYCOPODIUM OBSCURUM	PPLYC010P0	LYCOPODIACEAE	G5	SU	
MACHAERANTHERA COMMIXTA	PDAST640D0	ASTERACEAE	G364	S1	
MADIA MINIMA	PDAST650C0	ASTERACEAE	G?	S1	
MAIANTHEMUM CANADENSE	PMLIL1D010	LILIACEAE	G5	S1SH	
MALACOTHRIX TORREYI	PDAST660L0	ASTERACEAE	G4	S1	
MENTZELIA MONTANA	PDLOA03110	LOASACEAE	G4	SU	
MENTZELIA NUDA	PDLOA03150	LOASACEAE	G?	SU	
MENTZELIA PUMILA	PDLOA03160	LOASACEAE	G?	S1	
MERTENSIA BELLA	PDBOR0N040	BORAGINACEAE	G4	S1	
MIMULUS NANUS	PDSCL1B1Y0	SCROPHULARIACEAE	G5	S1S2	
MIMULUS PRIMULOIDES	PDSCL1B270	SCROPHULARIACEAE	G4	S1	
MIRABILIS HIRSUTA	PDNYC0A0P0	NYCTAGINACEAE	G?	S1	
MUHLENBERGIA ANDINA	PMPOA48010	POACEAE	G4	S2	
MUHLENBERGIA MINUTISSIMA	PMPOA48130	POACEAE	G4	S1	
MYOSOTIS Verna	PDBOR0P0D0	BORAGINACEAE	G5	SU	
NAJAS GUADALUPENSIS	PMNAJ01050	NAJADACEAE	G5	S1	
NYMPHAEA TETRAGONA	PDNYM050B0	NYMPHAEACEAE	G5	S1	
OENOTHERA PALLIDA VAR IDAHOENSIS	PDONA0C0Y2	ONAGRACEAE	G4T4Q	S1	
OPHIOGLOSSUM VULGATUM	PPOPH020B0	OPHIOGLOSSACEAE	G5	S1	
ORCHIS ROTUNDIFOLIA	PMORC01010	ORCHIDACEAE	G5	S1	
OROBANCHE CORYMBOSA	PDOR004040	OROBANCHACEAE	G?	S1	
OROGENIA LINEARIFOLIA	PDAPI1J020	APIACEAE	G?	S1	
OXYTROPIS COLUMBIANA	PDFAB2X0S0	FABACEAE	G2	S1	
OXYTROPIS LAGOPUS VAR CONJUGENS	PDFAB2X0A2	FABACEAE	G4T2	S2	
OXYTROPIS PODOCARPA	PDFAB2X0K0	FABACEAE	G?	S1	
PAPAVER KLUANENSIS	PDPAP0H0H0	PAPAVERACEAE	G4	S1	
PAPAVER PYGMAEUM	PDPAP0H060	PAPAVERACEAE	G5	S2	
PEDICULARIS CONTORTA VAR CTEPHORA	PDSCR1K092	SCROPHULARIACEAE	G5T?	SU	
PEDICULARIS CONTORTA VAR RUBICUNDA	PDSCR1K093	SCROPHULARIACEAE	G5T?	S1	
PEDICULARIS OEDERI	PDSCR1K0R0	SCROPHULARIACEAE	G?	S2	
PENSTEMON ATTENUATUS VAR MILITARIS	PDSCR1L0H2	SCROPHULARIACEAE	G4T4	S1	
PENSTEMON CARYI	PDSCR1L1B0	SCROPHULARIACEAE	G2G3	S2	SC
PENSTEMON FLAVESCENS	PDSCR1L2B0	SCROPHULARIACEAE	G3	S1	
PENSTEMON LEMHIENSIS	PDSCR1L3N0	SCROPHULARIACEAE	G3	S2	C2
PENSTEMON PAYETTENSIS	PDSCR1L4T0	SCROPHULARIACEAE	G4	S1	
PENSTEMON WHIPPLEANUS	PDSCR1L6P0	SCROPHULARIACEAE	G5	S1	
PHACELIA INCANA	PDHYD0C270	HYDROPHYLACEAE	G3	S1	
PHACELIA IVESSIANA	PDHYD0C260	HYDROPHYLACEAE	G?	S1	
PHACELIA THERMALIS	PDHYD0C4L0	HYDROPHYLACEAE	G?	S1	

Montana Natural Heritage Program
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
PHIPPSIA ALGIDA	PMP0A4T010	POACEAE	G4	S1	SC
PHLOX ANDICOLA	PDPLM0D080	POLEMONIACEAE	G?	SU	
PHLOX KELSEYI VAR MISSOULENSIS	PDPLM0D190	POLEMONIACEAE	G4T20	S2	SC
PHYSALIS HEDERIFOLIA	PDSOL0S0D0	SOLANACEAE	G5?	SU	
PHYSALIS PUMILA	PDSOL0S0M0	SOLANACEAE	G?	SU	
PHYSARIA ACUTIFOLIA	PDBRA22010	BRASSICACEAE	G4G5	S2	
PHYSOCARPUS MONOGYNUUS	PDR0S19040	ROSACEAE	G4	SU	
PINGUICULA VULGARIS	PDLNT01090	LENTIBULARIACEAE	G5	S2	
PLAGIOTHYRS LEPTOCLADUS	PDBOR0V0N0	BORAGINACEAE	G4	S1	
PLATYTSCHKUHRIA INTEGRIFOLIA	PDAST7C010	ASTERACEAE	G?	S2	
POLYGONUM DOUGLASII VAR AUSTINAE	PDPGN0L0X1	POLYGONACEAE	G4G5TU	SU	
POLYSTICHUM KRUCKEBERGII	PPASP0U0B0	ASPLENIACEAE	G5	S1	SC
POLYSTICHUM SCOPULINUM	PPASP0U0K0	ASPLENIACEAE	G5	S1	
POTAMOGETON OBTUSIFOLIUS	PMPOT030R0	POTAMOGETONACEAE	G5	S1S2	
POTENTILLA BREVIFOLIA	PDR0S1B0B0	ROSACEAE	G4	S1	
POTENTILLA UNIFLORA	PDR0S1B2B0	ROSACEAE	G?	S1	
PRIMULA ALCALINA	PDPRI0B000	PRIMULACEAE	G1	S1SH	
PSILOCARPHUS BREVISSIMUS	PDAST7R010	ASTERACEAE	G5	S1	
PSORALEA HYPOGAEA	PDFAB3B0F0	FABACEAE	G3G4	S1	
PTERYXIA HENDERSONII	PDAP11X020	APIACEAE	G?	S2SU	
QUERCUS MACROCARPA	PDFAG05190	FAGACEAE	G5	S1?	
RANUNCULUS CARDIOPHYLLUS	PDRAN0L0K0	RANUNCULACEAE	G4	S1	
RANUNCULUS GELIDUS	PDRAN0L0Y0	RANUNCULACEAE	G4	S1	
RANUNCULUS JOVIS	PDRAN0L1D0	RANUNCULACEAE	G?	S1	
RIBES COGNATUM	PDSAX0T090	SAXIFRAGACEAE	G3G5	S1	
RORIPPA CALYCINA	PDBRA27040	BRASSICACEAE	G3	S1	C2
RUBUS URSINUS	PDR0S1K7X0	ROSACEAE	G5	S2	
SAGINA NIVALIS	PDCAR0P070	CARYOPHYLLACEAE	G5	S1	
SALIX BARRATTIANA	PDSAL020D0	SALICACEAE	G5	S1	
SALIX SERISSIMA	PDSAL022P0	SALICACEAE	G4	S1	
SALIX WOLFII VAR WOLFII	PDSAL02341	SALICACEAE	G4TU	S1	
SATUREJA DOUGLASII	PDLAM1T020	LAMIACEAE	G4	S1?	
SAUSSUREA DENSA	PDAST8B050	ASTERACEAE	G4	S1	
SAUSSUREA WEBERI	PDAST8B060	ASTERACEAE	G4	S1	SC
SAXIFRAGA APETALA	PDSAX0U220	SAXIFRAGACEAE	G?	S2	
SAXIFRAGA CHRYSANTHA	PDSAX0U0D0	SAXIFRAGACEAE	G?	S1	
SAXIFRAGA TEMPESTIVA	PDSAX0U1R0	SAXIFRAGACEAE	G2	S2	
SAXIFRAGA TOLMIEI VAR LEDIFOLIA	PDSAX0U1U1	SAXIFRAGACEAE	G5T5	S2	
SCIRPUS CYPERINUS	PMCYP0Q0F0	CYPERACEAE	G5	S1	
SCIRPUS HETEROCHAETUS	PMCYP0Q0T0	CYPERACEAE	G5	S3	
SCIRPUS HUDSONIANUS	PMCYP0A010	CYPERACEAE	G5	S1	
SCIRPUS NEVADENSIS	PMCYP0Q130	CYPERACEAE	G4	S1S2	
SCIRPUS SUBTERMINALIS	PMCYP0Q1G0	CYPERACEAE	G4G5	S1	
SEDUM DEBILE	PDCRA0A090	CRASSULACEAE	G4G5	S1	
SELAGINELLA SELAGINOIDES	PPSEL01110	SELAGINELLACEAE	G5	S1	
SELAGINELLA WATSONII	PPSEL011D0	SELAGINELLACEAE	G4G5	S1	
SENECIO AMPLECTENS VAR HOLMII	PDAST8H022	ASTERACEAE	G?	S1	
SENECIO DEBILIS	PDAST8H110	ASTERACEAE	G3G4	S1	
SENECIO FUSCATUS	PDAST8H1E0	ASTERACEAE	G4	S2	
SENECIO PAUCIFLORUS	PDAST8H2D0	ASTERACEAE	G4G5	S1	

Montana Natural Heritage Program
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
SHOSHONEA PULVINATA	PDAPI2G010	APIACEAE	G3	S1	C2
SILENE SPALDINGII	PDCAR0U150	CARYOPHYLLACEAE	G2	S1	C2
SOLIDAGO SPARSIFLORA	PDAST8P1V0	ASTERACEAE	G?	SU	
SPHAERALcea MUNROANA	PDMAL140F0	MALVACEAE	G4	S1	
SPHAEROMERIA CAPITATA	PDAST8S030	ASTERACEAE	G3	S2	
SPHENOPHOLIS OBTUSATA VAR MAJOR	PMPOA5T031	POACEAE	G5T?	S2	
SPIRAEA X PYRAMIDATA	PDROS100G0	ROSACEAE	G3G4	S1	
SPOROBOLUS NEGLECTUS	PMPOA5V0L0	POACEAE	G5	SU	
SPOROBOLUS VAGINIFLORUS	PMPOA5V0X0	POACEAE	G5	SU	
STANLEYA TOMENTOSA	PDBRA2E050	BRASSICACEAE	G4	S1	
STANLEYA VIRIDIFLORA	PDBRA2E060	BRASSICACEAE	G4	S1	
STELLARIA SIMCOEI	PDCAR0X100	CARYOPHYLLACEAE	G4G	S1G	
STEPHANOMERIA SPINOSA	PDAST8U0E0	ASTERACEAE	G4	S2	
STIPA LETTERMANII	PMPOA5X0H0	POACEAE	G?NE	SU	
STIPA THURBERIANA	PMPOA5X120	POACEAE	G5	SU	
STREPTANTHELLA LONGIROSTRIS	PDBRA2F010	BRASSICACEAE	G?	S1	
SULLIVANTIA HAPEMANII	PDSAX0X010	SAXIFRAGACEAE	G3	S1	SC
SYNTHYRIS CANBYI	PDSCR1W020	SCROPHULARIACEAE	G2G3	S2S3	SC
SYNTHYRIS MISSURICA	PDSCR1W040	SCROPHULARIACEAE	GUQ	S1	
TARAXACUM ERIOPHORUM	PDAST930G0	ASTERACEAE	G4	S1	
THALICTRUM ALPINUM	PDRAN0M010	RANUNCULACEAE	G4G5	S1	
THELYPODIUM PANICULATUM	PDBRA2N0B0	BRASSICACEAE	G?	S1	
THELYPODIUM SAGITTATUM SSP SAGITTATUM	PDBRA2N0E2	BRASSICACEAE	G?	SU	
THELYPTERIS PHEGOPTERIS	PPASP0X130	ASPLENIACEAE	G5	S1	
THLASPI PARVIFLORUM	PDBRA2P050	BRASSICACEAE	G?	SU	
TOFIELDIA PUSILLA	PMLIL1Y040	LILIACEAE	G4G5	S1	
TOWNSENDIA CONDENSATA	PDAST9C040	ASTERACEAE	G?	S1	
TOWNSENDIA FLORIFER	PDAST9C080	ASTERACEAE	G4G5	S1	
TOWNSENDIA INCANA	PDAST9C0D0	ASTERACEAE	G?	S1S2	
TOWNSENDIA LEPTOTES	PDAST9C0F0	ASTERACEAE	G?	SU	
TOWNSENDIA SPATHULATA	PDAST9C0M0	ASTERACEAE	G3	S2	SC
TRADESCANTIA BRACTEATA	PMCON0B010	COMMELINACEAE	G3G5	SU	
TRIFOLIUM DOUGLASII	PDFAB400T0	FABACEAE	G3G4	S1	
TRIFOLIUM ERIOCEPHALUM SSP ARCUATUM	PDFAB400V1	FABACEAE	G?	S1	
TRIFOLIUM GYMNOCARPON	PDFAB40110	FABACEAE	G?	SU	
TRIGLOCHIN CONCINNUM VAR DEBILE	PMSCH03012	SCHEUCHZERIACEAE	G5T4	S1	
TRISETUM ORTHOCHAETUM	PMPOA690A0	POACEAE	HYB	HYB	C2
UTRICULARIA INTERMEDIA	PDLNT020A0	LENTIBULARIACEAE	G5	S1	
VACCINIUM MYRTILLOIDES	PDERI180M0	ERICACEAE	G5	S1	
VERATRUM CALIFORNICUM	PMLIL25020	LILIACEAE	G5	S1SU	
VERBENA BIPINNATIFIDA	PDVER0A010	VERBENACEAE	G?	S1	
VERBESINA ENCELIOIDES	PDAST9R060	ASTERACEAE	G?	SU	
VIBURNUM LENTAGO	PDCPR070B0	CAPRIFOLIACEAE	G5	S1	
VIOLA RENIFOLIA	PDVIO041V0	VIOLACEAE	G5	S1	
VIOLA SEPTENTRIONALIS	PDVIO04230	VIOLACEAE	G5	SU	
WALDSTEINIA IDAHOENSIS	PDROS1S020	ROSACEAE	G3	S1	SC
WOLFFIA COLUMBIANA	PMLEM03030	LENNACEAE	G5	S1	
WOLFFIA PUNCTATA	PMLEM03040	LENNACEAE	G5	S1	
WYETHIA SCABRA VAR SCABRA	PDAST9X0E3	ASTERACEAE	G?	S1	
XYLORHIZA GLABRIUSCULA	PDASTA1030	ASTERACEAE	G3G5	S1	

Page No. 8
01/07/88

Montana Natural Heritage Program
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
ZIZIA AUREA	PDAP12F020	APIACEAE	65	SU	